

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"5828064".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/05 16:47
S3	41	(ion or electron) with (emit or emission) and beam and (cathode or anode). ab. and differential with pumping	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/12/04 18:11
S4	50	("3405263"   "3809899").PN. OR ("4139773").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 18:14
S5	6209	(ion or electron) with (gun or emission) with (extract\$3 or suppresor or cathode or anode) and (high with vacuum)	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 18:24
S6	679	S5 and (vacuum with (pumping or differential or "levels of"))	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 18:24
S7	284	S5 and (vacuum with ( differential or "levels of"))	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 18:24
S8	6542	(ion or electron) with (gun or emission) with (extract\$3 or suppresor or cathode or anode) and (high with vacuum)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2009/12/04 18:25
S9	284	S5 and (vacuum with ( differential or "levels of"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2009/12/04 18:25

S10	179	S9 and @ay<"2005"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2009/12/04 18:26
S11	6	("3678333"   "3881125"   "4833362").PN. OR ("5150001").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 18:38
S12	19	("2253542"   "2991362"   "3363098"   "3809899").PN. OR ("4066905").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 18:43
S13	8	(emitter or emission or emit) with3 (ion or electron or "charged particle") and (barrier or separat\$4 or chamber or (levels with vacuum)) and (electrode or cathode or anode)	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 18:56
S14	6	313/230.ccls. and 313/545.ccls.	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:01
S15	890	313/249.ccls.	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:17
S16	118	S15 and beam	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:18
S17	512	313/283.ccls.	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:19
S18	3820	313/293-304.ccls.	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:19
S19	639	S18 and beam and electron	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:20
S20	116	S16 and electron	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:20
S21	699	313/312.ccls.	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:20
S22	694	313/324.ccls.	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:21
S23	601	313/352.ccls.	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:22

S24	0	electrode with attached with casing with ("250".clas. or "313".clas. or "315.clas")	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:30
S25	1080	electrode with attach\$4 with (casing or chamber or wall) and ("250".clas. or "313".clas. or "315.clas")	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:30
S26	200	electrode with attach\$4 with (casing or (chamber with wall)) and ("250".clas. or "313".clas. or "315.clas")	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:31
S27	2	("2516704").URPN.	USPAT	AND	ON	2009/12/04 19:39
S28	2759	250/306,309-311.ccls.	USPAT	AND	ON	2009/12/04 19:41
S29	2154	250/397-400.ccls.	USPAT	AND	ON	2009/12/04 19:42
S35	123	250/430.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/12/04 19:44
S36	5619	S15 or S17 or S18 or S21 or S22 orl S23	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:46
S37	2999	S36 and (anode or cathode or electrode)	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:46
S38	1195	S37 and vacuum	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:46
S39	379	S38 and (multiple or two or many or several or differential or second) with (vacuum or pump or exhaust)	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:47
S40	122	S39 and beam	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:47

S41	4457	S28 or S29 or S35	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:53
S42	1217	S41 and extract\$3	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:53
S43	323	S42 and beam with column	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:53
S44	873	S42 and @ay<"2005"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2009/12/04 19:54
S45	142	S44 and (multiple or two or many or several or differential or second) with (vacuum or pump or exhaust)	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 19:54
S46	28641	differential with pump\$3	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 20:01
S47	3172	differential with pump\$3 with vacuum	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 20:02
S48	2897	S47 and (chambers or sections)	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 20:02
S49	1421	S48 and (electron or ion or "charged particle")	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 20:02
S50	879	S49 and beam	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 20:03
S51	138	S50 and emitter	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 20:03
S52	700	S20 or S10 or S9 or S26 or S40	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 20:04
S53	65	S51 not S52	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 20:04
S54	64	(beam with limit with aperture) with (voltage or charge or bias or potential)	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 20:10
S55	56	S54 not S52	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 20:10
S56	16	S55 and @ay<"2005"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2009/12/04 20:10

S57	413	(beam with (limit \$3 or shap\$3) with aperture) with (voltage or charge or bias or potential) and @ay<"2005"	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 20:12
S58	403	S57 not S52	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 20:12
S59	202	S58 and "250". clas.	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 20:12
S60	27	(beam with (limit \$3 or shap\$3) with aperture) with (apply or applying or application) with (voltage or charge or bias or potential) and @ay<"2005" and "250". clas. not S52	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 20:13
S61	27	(beam with (limit \$3 or shap\$3) with aperture) with (apply or applying or application) with (voltage or charge or bias or potential) and @ay<"2005" and "250". clas. not S52	US-PGPUB; USPAT; USOCR	AND	ON	2009/12/04 20:13

**EAST Search History (Interference)**

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